	Application No.	Applicant(s)	
Notice of Allowability	10/047,898	FENG ET AL.	
	Examiner	Art Unit	
	V. Paul Harper	2654	\
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet wite (OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is si	h the correspondence addr this application. If not includinication will be mailed in due	ed / course. THIS
1. This communication is responsive to <u>1/15/2002</u> .			
2. The allowed claim(s) is/are <u>1-17</u> .			
3. The drawings filed on 15 January 2002 are accepted by the Examiner.			
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application	n No	ition from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the re-	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Paper No./Mail Date Identifying Indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the	on's Patent Drawing Review s Amendment / Comment or .84(c)) should be written on th	in the Office action of e drawings in the front (not the	back) of
7. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT			Note the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview Su Paper No./I 98), 7. ☑ Examiner's	ormal Patent Application (PTo Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allo	ŕ
			•

EXAMINER'S AMENDMENT / REASONS FOR ALLOWANCE

Examiner's Amendment

1. An examiner's amendment to a record appears below. Should a changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than a payment of an issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Frank Nicholas on 8/08/2005.

(beginning of amendment)

In claim 10, change "A system of claim 6," to –A system of claim 9,--.

In claim 13, add a period to the end of the claim.

(end of amendment)

Reasons for Allowance

2. Claims 1-17 are allowed.

It is noted that a closest prior art of record, Eberman et al. (US Patent 5,924,065), discloses an environmentally compensated speech processing system, but Eberman et al. does not teach:

(in claims 1, 3, 9, and 11) determining spectral information indicative of an encoded difference in a voice pattern between a speech signal and one or more keywords when speech is acceptable or a distance is less that an established threshold, and generating a voice pattern as a function of the spectral information; or

Application/Control Number: 10/047,898

Art Unit: 2654

(in claims 5) determining spectral information indicative of an encoded difference in a voice pattern between a speech signal and one or more keywords; transforming the spectral information into a continuous frequency spectrum indicative of an encoded difference in a voice pattern between a speech signal and a one or more keywords; and operating a voice pattern filter on the basis of a continuous frequency spectrum; or

(in claim 7) operating a voice pattern filter on a basis of a continuous frequency spectrum indicative of an encoded difference in a voice pattern between a speech signal and one or more keywords; and filtering a speech signal sequentially through a voice pattern filter and an automated speech recognition filtering device to a automated speech recognition platform to facilitate an optimal performance of an automated speech recognition platform; or

(in claim 8) transmitting a data packet from a client side to a server side when a speech signal is determined to be acceptable, the data packet including spectral information indicative of an encoded difference in a voice pattern between a speech signal and a one or more keywords; transforming spectral information into a continuous frequency spectrum indicative of an encoded difference in a voice pattern between a speech signal and a one or more keywords; operating a voice pattern filter on a server side on the basis of a continuous frequency spectrum; or

(in claim 13) a module operable to determine spectral information indicative of an encoded difference in a voice pattern between a speech signal and one or more keywords; and a voice pattern filter generated as a function of a transformation of

Application/Control Number: 10/047,898

Art Unit: 2654

spectral information into a continuous frequency spectrum indicative of an encoded difference in a voice pattern between a speech signal and a one or more keywords; or

(in claim 15) a voice pattern filter operable on a basis of a continuous frequency spectrum indicative of an encoded difference in a voice pattern between a speech signal and one or more keywords; or

(in claim 16) a module operable to transmit a data packet from a client side to a server side when a speech signal is determined to be acceptable, the data packet including spectral information indicative of an encoded difference in a voice pattern between a speech signal and a one or more keywords; a voice pattern filter operable on a basis of a transformation of spectral information into a continuous frequency spectrum indicative of a encoded difference in a voice pattern between a speech signal and a one or more keywords.

Thus, independent claims 1, 3, 5, 7, 8, 9, 11, 13, 15 and 16 are allowable over a prior art of record because a cited prior art alone or in combination, does not fairly suggest or disclose a claimed combination of features.

Any comments considered necessary by applicant must be submitted no later than a payment of an issue fee and, to avoid processing delays, should preferably accompany an issue fee. Such submissions should be clearly labeled "Comments on Statement for Reasons of Allowance."

Application/Control Number: 10/047,898

Art Unit: 2654

Citation of Pertinent Art

3. A following prior art made of record but not relied upon is considered pertinent to a applicant's disclosure:

- Bardaud et al. (U.S. Patent 6,006,180) disclose a method for recognizing deformed speech.
- Brems et al. (U.S. Patent 5,566,272) disclose automatic speech recognition using confidence measures.
- Eberman et al. (U.S. Patent 5,924,065) disclose environmentally compensated speech processing.
- Epstein (U.S. Patent 5,465,317) discloses a speech recognition system with improved rejection of words and sounds not in a system vocabulary.

Conclusion

Any inquiry concerning this communication or earlier communications from a examiner should be directed to V. Paul Harper whose telephone number is (571) 272-7605. A examiner can normally be reached on M-F.

If attempts to reach an examiner by telephone are unsuccessful, an examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. A fax phone number for an organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2654

Information regarding a status of an application may be obtained from a Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from eiar Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about a PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to a Private PAIR system, contact an Electronic Business Center (EBC) at 866-217-9197 (toll-free).

1. Paul Harper

8/08/2005

V. Paul Harper Patent Examiner Art Unit 2654

> RICHEMOND DORVIL SUPERVISORY PATENT EXAMINER